

# PROJECT COMPLETION REPORT

**PROJECT NAME**        **Holly Beach Sand Management – Sand Fence Repairs**  
**CWPPRA/STATE PROJECT NO.**        **CS-31**

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**Report Date: December 4, 2006**

**BY: Darrell Pontiff**

**1. Project Managers/Contracting Officer:**

<b>DNR Project Manager</b>	N/A	<b>Telephone</b>
<b>DNR Construction Project Manager</b>	Herbert Juneau	<b>Telephone</b> (337) 482-0684
<b>DNR Monitoring Manager</b>	N/A	<b>Telephone</b>
<b>Federal Agency Project Manager</b>	Brad Sticker	<b>Telephone</b> (318) 473-7791
<b>Federal Agency Contracting Officer</b>	N/A	<b>Telephone</b>

**2. Location and description of projects as approved for construction by Task Force.**

The Holly Beach Sand Management-Sand Fence Repair Project is located in Cameron Parish, west of the community of Holly Beach along the Gulf of Mexico shoreline. The approximate geodetic coordinates for the center of the project area are 29 45' 42" north latitude and 93 33' 13" west longitude. The project purpose is to replace sand fencing along the beach which was destroyed by Hurricane RITA in 2005. The goal is to develop a barrier to arrest the drifting sand and create sand dunes to protect the marsh areas north of the highway.

The project area is situated within the Cheniere Plain of southwestern Louisiana. This is a relatively large coastal ecosystem created by 5,000 years of sediment deposition from the Mississippi River. The soils that occur in the project area are classified as Coastal beach underlain by Pleistocene deposits. The project area includes 8,600 acres of brackish and intermediate marsh, along with 300 acres of beach.

**3. Final, as-built features, boundaries and resulting acreage (use attachments if necessary).**

The constructed project consists of 46,239 linear feet of new sand fencing, of which 28,826 linear feet are on the primary alignment and 17,413 linear feet are on the secondary fence alignment. The project also entailed removal and disposal of the existing fence posts, fence material and debris from the original fence which was destroyed by Hurricane RITA. The exact locations and constructed dimensions of the project features can be seen in the attached "As Built" plans.

**4. Key project cost elements**

	CWPPRA Project Cost Estimates**	Cost Incurred as of Construction Completion
<b>Construction</b>	<b>\$348,000</b>	<b>\$218,473.50</b>
<b>E &amp; D</b>	<b>\$10,000</b>	<b>\$10,000</b>
<b>Landrights</b>	N/A	N/A
<b>Monitoring</b>	N/A	N/A
<b>O &amp; M</b>	N/A	N/A
<b>Total</b>	<b>\$ 358,000</b>	<b>\$228,473.50</b>

\*\* Most recent estimate from CWPPRA Project estimates Report produced by USACOE.

**5. Items of Work**

Work	Est. Quantity	Unit	Est. Unit Price	Est. Amount	Final Quant.	Bid Unit Price	Final Amount	% Over/Under
Sand Fencing	46,000	LF	\$7.20	\$331,200	46,239	\$4.50	\$208,075.50	37%
Remove and Dispose of Existing Posts and Fencing	1	LS	\$16,800	\$16,800	1	\$10,398.00	\$10,398.00	38%

**6. Construction and construction oversight**

<b>Prime construction contractor</b>	Landscape Management Services
<b>Subcontractor</b>	N/A
<b>Original construction contract</b>	\$217,398.00
<b>Change orders</b>	\$1,075.50
<b>Over/Under runs</b>	\$0
<b>Final construction contract</b>	\$218,473.50

<b>Const. oversight contractor</b>	LDNR	<b>Final amt.</b>
<b>Cons. O.S./Admin. Agency</b>	N/A	<b>Est. amt.</b>

**7. Major equipment used.**

Bobcat 334 with excavator or auger  
 Kubota tractor  
 Dump trailer

**8. Discuss construction sequences and activities, problems encountered, solutions to problems, etc.**

1. Removed existing fence posts, salvaging those still intact for reuse, and stockpiled broken pieces for disposal.
2. Installed fence posts on the primary fence alignment, including offset fence sections.
3. Installed sand fencing on primary fence alignment.
4. Installed fence posts on secondary fence alignment.
5. Installed sand fencing on secondary alignment.
6. Removal of additional broken fence posts uncovered by high water event.
7. Performed general clean up along entire length of project.

**Note:** With a 6 man crew, contractor installed an average of 3,200 LF of fence per day.  
 With a 9 man crew, contractor installed an average of 5,690 LF of fence per day.  
 With a 6 man crew, contractor installed an average of 500 posts per day.

**9. Construction change orders and field changes.**

1. Executed Change Order No. 1 to account for additional fence installed on secondary fence alignment.
2. Allowed wrap around end post with fence material in lieu of tie clips.
3. Allowed tie clip on bottom wire to be moved up one wire due to sand encroachment and difficulty in making the tie.

**10. Pipeline and other utility crossings.**

None.

**11. Safety and Accidents.**

No accidents were observed or reported during the duration of the contract.

**12. Additional comments pertaining to construction, completed project, etc.**

See attached Supplement.

**13. Significant Construction Dates:**

<b>Bid I.D. (Construction, N26310DL)</b>	<b>Date</b>
<b>Bid Opening</b>	<b>07/25/06</b>
<b>Construction Contract Award</b>	<b>08/10/06</b>
<b>Preconstruction Conference</b>	<b>10/02/06</b>
<b>Notice to Proceed</b>	<b>10/03/06</b>
<b>Mobilization</b>	<b>10/04/06</b>
<b>Construction Start</b>	<b>10/09/06</b>
<b>Construction Completion</b>	<b>11/27/06</b>
<b>Final Acceptance</b>	<b>11/27/06</b>

**Other significant Project Dates**

<b>Project Implementation closeout**</b>	
<b>Start of Preconstruction Monitoring***</b>	
<b>Preconstruction Aerial Photography Acquisition***</b>	
<b>Monitoring Plan Completion***</b>	

**\*\*Final implementation closeout is made by either the DNR Project Manager or the Federal Agency Contracting Officer depending on which organization had lead role for construction of project.**

**\*\*\*To be completed by DNR Project Manager.**

## SUPPLEMENT TO COMPLETION REPORT

### CONTRACT ADMINISTRATION

List any significant problems encountered in the administration of the construction contract and recommended solution for future contract of like nature.

<b>DESCRIPTION OF PROBLEM ENCOUNTERED</b>	<b>RECOMMENDATION FOR FUTURE CONTRACTS</b>

### CONSTRUCTION PLANS

List any items pertinent to the plans which caused problems, need clarification or changes for future contracts of this nature.

<b>DESCRIPTION OF ITEM IN PLANS</b>	<b>RECOMMENDATIONS FOR FUTURE CONTRACTS</b>
1. Lack of clarity of fence connection to posts.	1. Provide additional details on tie clip connections to post as well as updating fence specifications.

### GENERAL COMMENTS

List any significant items which worked well and should be repeated or which caused problems, need clarification or changes for future contracts of this nature.

<b>DESCRIPTION OF ITEM</b>	<b>RECOMMENDATIONS FOR FUTURE CONTRACTS</b>
<ol style="list-style-type: none"><li>1. Construction trash and debris was beginning to get covered by sand accumulation before contractor performed clean up at end of job.</li><li>2. Contractor allowed to make tie clip on second wire from bottom because of insufficient clearance to make the twist on the tie clip. Also allowed alternate end post tie clip arrangement using wire from fence with removed wood slats.</li></ol>	<ol style="list-style-type: none"><li>1. Require Contractor to perform daily clean up of construction trash and debris in lieu of waiting until job is complete.</li><li>2. See pictures in construction binder for clarification.</li></ol>